

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P553902

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-97-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P553902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-1HI-30-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

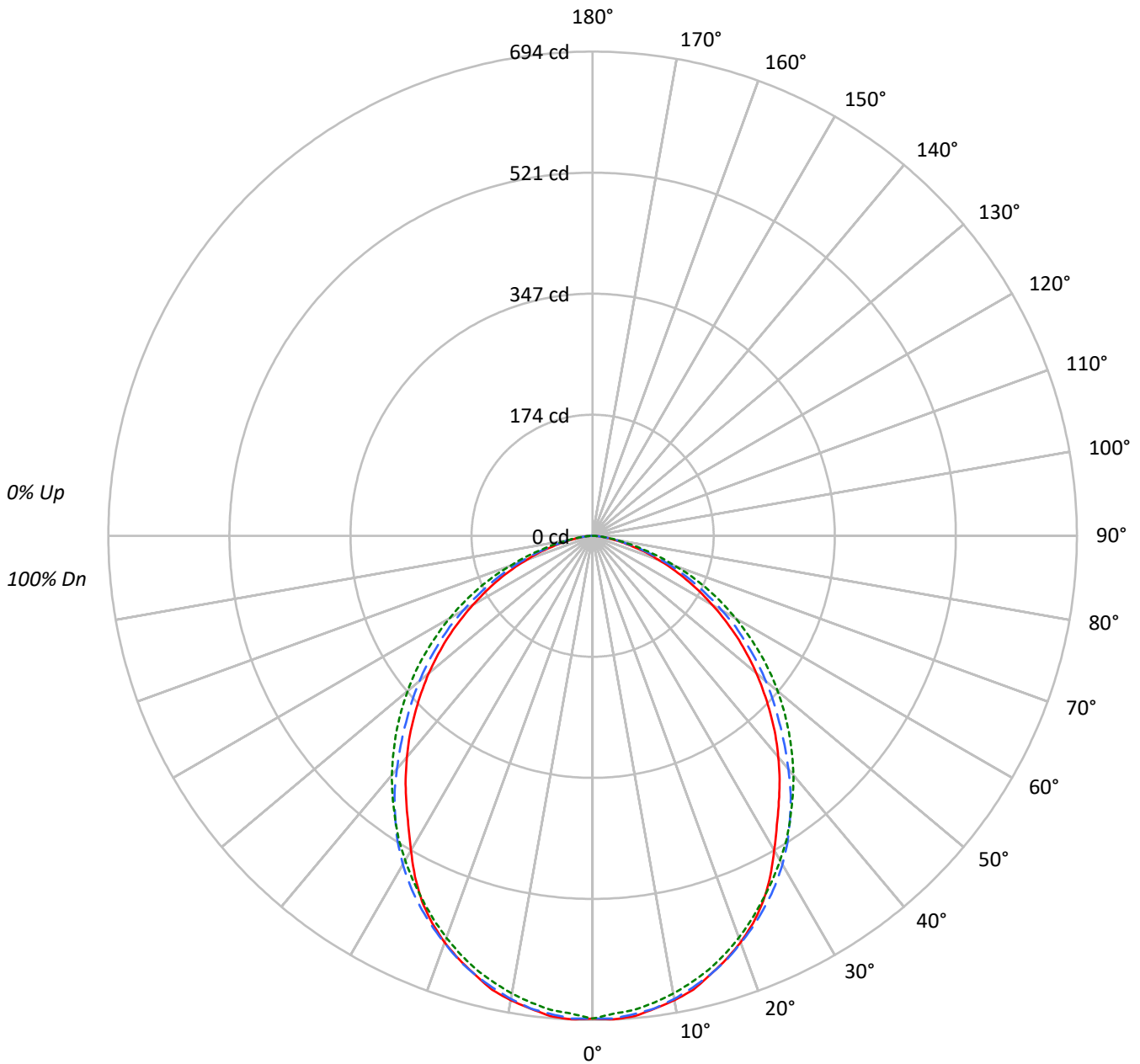
Lumens per Lamp: N/A
Luminaire Lumens: 1600.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3724	3724	3724
5°	3734	3718	3687
10°	3694	3684	3642
15°	3629	3629	3587
20°	3552	3557	3511
25°	3435	3477	3422
30°	3235	3380	3338
35°	3056	3240	3245
40°	2908	3065	3145
45°	2742	2879	3027
50°	2566	2713	2898
55°	2367	2524	2741
60°	2131	2303	2550
65°	1882	2048	2319
70°	1569	1745	1970
75°	1233	1393	1543
80°	880	979	1088
85°	574	574	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	4.1
10°-20°	183.0	11.4
20°-30°	267.5	16.7
30°-40°	303.6	19.0
40°-50°	293.1	18.3
50°-60°	241.8	15.1
60°-70°	161.0	10.1
70°-80°	72.0	4.5
80°-90°	12.9	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	515.6	32.2
0°-40°	819.2	51.2
0°-60°	1354.1	84.6
0°-90°	1600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	691	691	688	684	682	65
15°	651	653	651	648	644	184
25°	578	583	586	581	576	265
35°	465	472	493	496	494	291
45°	360	366	378	396	398	278
55°	252	256	269	284	292	225
65°	148	152	161	172	182	147
75°	59	62	67	70	74	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.0	692.0	692.0	692.0	692.0
2.5°	693.8	694.1	692.5	688.2	685.6
5°	691.2	690.9	688.2	684.5	682.4
7.5°	683.5	684.0	683.2	677.9	674.9
10°	676.0	676.3	674.1	669.9	666.4
12.5°	666.4	666.2	663.2	661.1	655.5
15°	651.3	652.9	651.3	648.4	643.8
17.5°	636.7	636.7	637.7	632.7	629.2
20°	620.2	621.0	621.0	617.0	613.0
22.5°	601.0	603.4	604.2	600.0	595.2
25°	578.4	583.0	585.6	581.4	576.3
27.5°	551.1	558.0	566.0	562.8	557.2
30°	520.5	530.6	543.9	541.2	537.2
32.5°	491.5	501.6	520.0	518.9	516.8
35°	465.2	471.6	493.1	495.8	493.9
37.5°	440.2	446.1	466.3	472.4	470.8
40°	413.9	420.3	436.2	447.1	447.7
42.5°	387.8	394.0	407.0	422.7	422.7
45°	360.2	366.3	378.3	395.6	397.7
47.5°	333.1	339.5	351.2	368.4	371.9
50°	306.5	312.4	324.0	340.8	346.1
52.5°	278.9	285.2	296.7	312.1	319.8
55°	252.3	256.5	269.0	283.9	292.1
57.5°	224.6	228.6	242.7	255.5	264.0
60°	198.0	203.1	214.0	227.0	236.9
62.5°	172.5	177.8	187.1	198.6	209.7
65°	147.8	151.8	160.8	172.3	182.1
67.5°	123.9	127.3	136.4	144.3	154.7
70°	99.7	104.2	110.9	118.6	125.2
72.5°	80.3	82.1	87.7	93.3	100.2
75°	59.3	62.5	67.0	70.2	74.2
77.5°	42.5	44.4	47.1	49.7	53.4
80°	28.4	29.2	31.6	32.2	35.1
82.5°	17.3	17.8	18.3	18.6	19.7
85°	9.3	9.3	9.3	8.8	8.8
87.5°	5.3	5.3	4.5	3.7	2.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)